

## EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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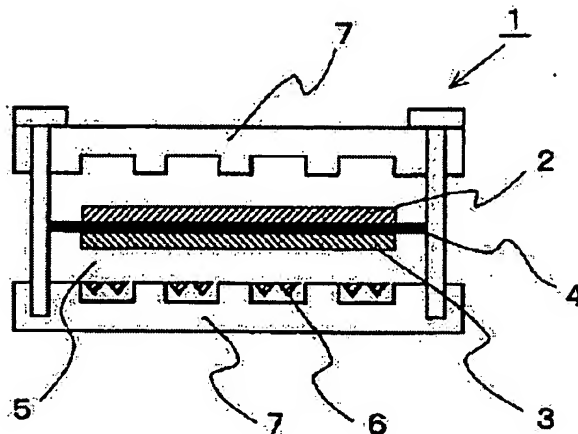
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APPLICANT : SUGINO MACH LTD;

INVENTOR : SAWADA MASATO;

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TITLE : ALKALINE FUEL CELL



ABSTRACT : PROBLEM TO BE SOLVED: To provide an alkaline fuel cell capable of easily supplying pure fuel hydrogen gas without requiring large equipment such as a hydrogen gas reformer and a hydrogen storage means and having the device structure possible to be miniaturized and simplified in comparison with a conventional one.

SOLUTION: This alkaline fuel cell is provided with an oxygen pole and a hydrogen pole pinching a caustic alkaline electrolyte phase between them, a hydrogen supply means for supplying fuel hydrogen gas to the hydrogen pole, and an oxygen supplying means for supplying oxidizing agent to the oxygen pole. The hydrogen gas supply means has a reaction chamber for generating hydrogen gas with the contact reaction of the supplied caustic alkali solution with the silicon.

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